

# **EXHIBIT 1**

**UNITED STATES DISTRICT COURT  
FOR THE EASTERN DISTRICT OF TEXAS  
MARSHALL DIVISION**

<p>HEADWATER RESEARCH LLC,</p> <p style="text-align: center;"><i>Plaintiff and Counterclaim-Defendant,</i></p> <p>v.</p> <p>T-MOBILE US, INC., T-MOBILE USA, INC., and SPRINT CORP.,</p> <p style="text-align: center;"><i>Defendants and Counterclaimant-Plaintiffs.</i></p>	<p>Case No. 2:23-CV-00379-JRG-RSP</p> <p><b>(LEAD CASE)</b></p> <p><b>JURY TRIAL DEMANDED</b></p>
<p>HEADWATER RESEARCH LLC,</p> <p style="text-align: center;"><i>Plaintiff and Counterclaim-Defendant,</i></p> <p>v.</p> <p>T-MOBILE US, INC., T-MOBILE USA, INC., and SPRINT CORP.,</p> <p style="text-align: center;"><i>Defendants and Counterclaimant-Plaintiffs.</i></p>	<p>Case No. 2:23-CV-00377-JRG-RSP</p> <p><b>(MEMBER CASE)</b></p> <p><b>JURY TRIAL DEMANDED</b></p>

**PLAINTIFF HEADWATER RESEARCH LLC’S DISCLOSURE OF  
ASSERTED CLAIMS AND INFRINGEMENT CONTENTIONS**

Pursuant to P.R. 3-1 and P.R. 3-2, patent owner Headwater Research LLC (“Headwater”) hereby provides its disclosure of asserted claims and infringement contentions and its accompanying document production. This disclosure is based on the information available to Headwater as of the date of this disclosure, before Headwater has received any discovery on the design or operation of the defendants’ products. Headwater reserves the right to amend this disclosure to the full extent permitted under the court’s rules and orders.

**P.R. 3-1: DISCLOSURE OF ASSERTED CLAIMS AND INFRINGEMENT**  
**CONTENTIONS**

**P.R. 3-1(A): ASSERTED CLAIMS**

Headwater asserts that defendants T-Mobile US, Inc., T-Mobile USA, Inc., and Sprint Corp. (collectively, “T-Mobile”) infringe one or more of the following claims, directly, by inducement, by contributory infringement:

<i>U.S. Patent No.</i>	<i>Asserted Claims</i>
8,589,541	1-174
8,924,543	1-13, 15-16, 21-23, 28, 30-33, 35-47, 57-66, 68-72, 80, 85-93, 96, 98-99, 112-113, 120-121
9,198,042	1-9, 12-14, 16-18
9,215,613	1-24

Collectively, these four patents are referred to herein as the Asserted Patents, and these claims as the Asserted Claims.

**P.R. 3-1(B): ACCUSED INSTRUMENTALITIES OF WHICH HEADWATER IS**  
**AWARE**

In this section, Headwater provides lists of accused products that Headwater is aware of infringing based upon information presently available to it and its investigation to date. Headwater’s infringement claims are not limited to these listed products and specifically extend to all products and apparatuses of T-Mobile similar to the listed products that include the claimed elements. Unless otherwise stated, Headwater’s infringement assertions apply to all variations, versions, editions, and applications of each of the listed products.

**U.S. PATENT NO. 8,589,541**

Headwater accuses the following smartphones, basic phones, tablets, laptops, and hotspot devices sold (including those sold in bundles with data plans) or used by T-Mobile for use with T-Mobile's wireless network services of infringing each of the Asserted Claims of the '541 patent:

Servers, hardware, software, and services leased, owned, supported, and/or operated by T-Mobile comprising T-Mobile's wireless network services functionality.

Phones, tablets, wearables, and devices used, sold, offered for sale, or imported within six years of the filing of the date of the lawsuit comprising Apple software (e.g., iOS, WatchOS, etc.) including but not limited to the following: iPad Air, iPad Mini 2, iPhone 5C, iPhone 5S, iPad Air 2, iPad mini 3, iPhone 6, iPhone 6 Plus, iPad mini 4, iPad Pro, 12.9 in., iPhone 6S, iPhone 6S Plus, iPad Pro, 9.7 in, iPhone 7, iPhone 7 Plus, iPhone SE (1st Gen), iPad Pro, 10.5 in., iPad Pro, 12.9 in. (2nd Gen), Watch Series 3, iPhone 8, iPhone 8 Plus, iPhone X, iPad (6th Gen), Watch Series 4, iPad Pro, 11 in. (1st Gen), iPad Pro, 12.9 in. (3rd Gen), iPhone XR, iPhone XS, iPhone XS Max, iPad (7th Gen), iPad Air (3rd Gen), iPad Mini (5th Gen), iPhone 11, iPhone 11 Pro, iPhone 11 Pro Max, Watch Series 5, iPad (8th Gen), iPad Air (4th Gen), iPad Pro, 11 in. (2nd Gen), Watch Series 6, Watch SE, iPad Pro, 12.9 in. (4th Gen), iPhone 12, iPhone 12 Mini, iPhone 12 Pro, iPhone 12 Pro Max, iPhone SE (2nd Gen), iPad (9th Gen), iPad Mini (6th Gen), iPad Pro, 11 in. (3rd Gen), iPad Pro, 12.9 in. (5th Gen), iPhone 13, iPhone 13 Mini, iPhone 13 Pro, iPhone 13 Pro Max, Watch Series 7, iPad (10th Gen), iPad Air (5th Gen), Watch Series 8, Watch SE (2nd Gen), Watch Series 9, iPad Pro (6th Gen), iPhone 14, iPhone 14 Plus, Watch Ultra, Watch Ultra 2, iPhone 14 Pro, iPhone 14 Pro Max, iPhone SE (3rd Gen), iPhone 15, iPhone 15 Pro, iPhone 15 Plus, and iPhone 15 Pro Max.

Phones, tablets, wearables, and devices used, sold, offered for sale, or imported within six years of the filing of the date of the lawsuit comprising Android software (e.g., Android Operating System Platform) including but not limited to the following: Galaxy A03s, Galaxy A10e, Galaxy A13, Galaxy A13 5G, Galaxy A14 5G, Galaxy A20, Galaxy Core Prime, Galaxy J3 Eclipse, Galaxy Note 10+, Galaxy Note 10+ 5G, Galaxy Note 20 5G, Galaxy Note 5, Galaxy Note 6, Galaxy Note 7, Galaxy Note 8, Galaxy Note 9, Galaxy S10, Galaxy S10 5G, Galaxy S10+, Galaxy S10e, Galaxy S20 FE 5G, Galaxy S20 Ultra 5G, Galaxy S20+ 5G, Galaxy S21 5G, Galaxy S21 FE 5G, Galaxy S21 Ultra 5G, Galaxy S21+ 5G, Galaxy S22, Galaxy S22 Ultra, Galaxy S22+, Galaxy S22+, Galaxy S23, Galaxy S23 Ultra, Galaxy S23+, Galaxy S23 FE, Galaxy S5, Galaxy S6, Galaxy S6, Galaxy S6 edge, Galaxy S6 edge +, Galaxy S7, Galaxy S8, Galaxy S8+, Galaxy S9, Galaxy S9+, Galaxy Z Flip 3 5G, Galaxy Z Fold 3 5G, Galaxy Z Fold 4, Galaxy Z Fold 5, Galaxy Z Flip 4, Galaxy Z Flip 5, Note 10+ 5G, Galaxy Tab 4 (8.0), Galaxy Tab E, Galaxy Tab S, Galaxy Tab S2, Galaxy Tab S6, Galaxy Tab S7+ 5G, Galaxy Tab A, Galaxy Tab A 8.0, Galaxy Tab A 8.4, Galaxy Note 20 Ultra 5G, Galaxy A02s, Galaxy A12, Galaxy A01, Galaxy A21, Galaxy A51, Galaxy S7 edge, Galaxy Note 10, Galaxy S20 5G, Gear S2, On5, Galaxy J7 Star, Galaxy J3 Star, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, pixel 4, Pixel 4 XL, Pixel 5, Pixel 6, Pixel 6 Pro, Pixel 6a, Pixel 7 Pro, Pixel 7, Pixel XL, OnePlus 6T, HTC 10, One M9, Aristo 2 Plus, G Pad F 8.0, G Pad 10.1, G Pad x8.3, G4, G5, G6, G7, G7 ThinQ, G8, G8 ThinQ, K10, K20 V, K20 V, K30,

K40, K7, Stylo 4, Stylo 5, V10, V20, V30, V40 ThinQ, V50 ThinQ 5G, V60 ThinQ 5G, Velvet 5G, Wing 5G, Edge 2022, moto e play (5<sup>th</sup> Gen), moto e plus (5<sup>th</sup> Gen), Moto g pure, Moto g stylus 5G (2021), Moto g stylus 5G (2022), moto g6, moto g7 power, REVVL 2, REVVL 2 Plus, Avid Plus, Obsidian, 7 Pro, REVVL 5G, V60 ThinQ 5G Dual Screen, 7T Pro 5G McLaren, Aristo 4+, moto e 6th gen, Nord N200 5G, REVVL V+ 5G, razr 5G, 9 5G, Nord N300 5G, 10T 5G, REVVL 6 PRO 5G, Stylus 5G, 10 Pro 5G, Voix, Nord N20 5G, 30 XE 5G, G400 5G, one 5G ace, 8 5G, REVVLRY, Stylo 6, K51, REVVL 4, X100 5G, moto g 5G (2022), REVVL 6 5G, Voix, Nexus 9, Onetouch Pixi 7, Onetouch Pop 7 LTE, 3T 8-inch, G Pad 5 10.1 FHD, Joy Tab 2, Tab 8 LE, Tab 10 5G, 9 Pro 5G, Nord N10 5G, REVVL 4+, Nord N100, 8T+ 5G, Pixel Watch, V30+

The products in the preceding list, including all variations, editions, and applications of the foregoing, and all products and apparatuses of T-Mobile similar to the foregoing that include the claimed elements are the '541 Accused Instrumentalities.

### **U.S. PATENT NO. 8,924,543**

Headwater accuses the following smartphones, basic phones, tablets, laptops, and hotspot devices sold (including those sold in bundles with data plans) or used by T-Mobile for use with T-Mobile's wireless network services of infringing each of the Asserted Claims of the '543 patent:

Servers, hardware, software, and services leased, owned, supported, and/or operated by T-Mobile comprising T-Mobile's wireless network services functionality.

Phones, tablets, wearables, and devices used, sold, offered for sale, or imported within six years of the filing of the date of the lawsuit comprising Apple software (e.g., iOS, WatchOS, etc.) including but not limited to the following: iPad Air, iPad Mini 2, iPhone 5C, iPhone 5S, iPad Air 2, iPad mini 3, iPhone 6, iPhone 6 Plus, iPad mini 4, iPad Pro, 12.9 in., iPhone 6S, iPhone 6S Plus, iPad Pro, 9.7 in, iPhone 7, iPhone 7 Plus, iPhone SE (1st Gen), iPad Pro, 10.5 in., iPad Pro, 12.9 in. (2nd Gen), Watch Series 3, iPhone 8, iPhone 8 Plus, iPhone X, iPad (6th Gen), Watch Series 4, iPad Pro, 11 in. (1st Gen), iPad Pro, 12.9 in. (3rd Gen), iPhone XR, iPhone XS, iPhone XS Max, iPad (7th Gen), iPad Air (3rd Gen), iPad Mini (5th Gen), iPhone 11, iPhone 11 Pro, iPhone 11 Pro Max, Watch Series 5, iPad (8th Gen), iPad Air (4th Gen), iPad Pro, 11 in. (2nd Gen), Watch Series 6, Watch SE, iPad Pro, 12.9 in. (4th Gen), iPhone 12, iPhone 12 Mini, iPhone 12 Pro, iPhone 12 Pro Max, iPhone SE (2nd Gen), iPad (9th Gen), iPad Mini (6th Gen), iPad Pro, 11 in. (3rd Gen), iPad Pro, 12.9 in. (5th Gen), iPhone 13, iPhone 13 Mini, iPhone 13 Pro, iPhone 13 Pro Max, Watch Series 7, iPad (10th Gen), iPad Air (5th Gen), Watch Series 8, Watch SE (2nd Gen), Watch Series 9, iPad Pro (6th Gen), iPhone 14, iPhone 14 Plus, Watch Ultra, Watch Ultra 2, iPhone 14 Pro, iPhone 14 Pro Max, iPhone SE (3rd Gen), iPhone 15, iPhone 15 Pro, iPhone 15 Plus, and iPhone 15 Pro Max.

Phones, tablets, wearables, and devices used, sold, offered for sale, or imported within six years of the filing of the date of the lawsuit comprising Android software (e.g., Android Operating

System Platform) including but not limited to the following: Galaxy A03s, Galaxy A10e, Galaxy A13, Galaxy A13 5G, Galaxy A14 5G, Galaxy A20, Galaxy Core Prime, Galaxy J3 Eclipse, Galaxy Note 10+, Galaxy Note 10+ 5G, Galaxy Note 20 5G, Galaxy Note 5, Galaxy Note 6, Galaxy Note 7, Galaxy Note 8, Galaxy Note 9, Galaxy S10, Galaxy S10 5G, Galaxy S10+, Galaxy S10e, Galaxy S20 FE 5G, Galaxy S20 Ultra 5G, Galaxy S20+ 5G, Galaxy S21 5G, Galaxy S21 FE 5G, Galaxy S21 Ultra 5G, Galaxy S21+ 5G, Galaxy S22, Galaxy S22 Ultra, Galaxy S22+, Galaxy S22+, Galaxy S23, Galaxy S23 Ultra, Galaxy S23+, Galaxy S23 FE, Galaxy S5, Galaxy S6, Galaxy S6, Galaxy S6 edge, Galaxy S6 edge +, Galaxy S7, Galaxy S8, Galaxy S8+, Galaxy S9, Galaxy S9+, Galaxy Z Flip 3 5G, Galaxy Z Fold 3 5G, Galaxy Z Fold 4, Galaxy Z Fold 5, Galaxy Z Flip 4, Galaxy Z Flip 5, Note 10+ 5G, Galaxy Tab 4 (8.0), Galaxy Tab E, Galaxy Tab S, Galaxy Tab S2, Galaxy Tab S6, Galaxy Tab S7+ 5G, Galaxy Tab A, Galaxy Tab A 8.0, Galaxy Tab A 8.4, Galaxy Note 20 Ultra 5G, Galaxy A02s, Galaxy A12, Galaxy A01, Galaxy A21, Galaxy A51, Galaxy S7 edge, Galaxy Note 10, Galaxy S20 5G, Gear S2, On5, Galaxy J7 Star, Galaxy J3 Star, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, pixel 4, Pixel 4 XL, Pixel 5, Pixel 6, Pixel 6 Pro, Pixel 6a, Pixel 7 Pro, Pixel 7, Pixel XL, OnePlus 6T, HTC 10, One M9, Aristo 2 Plus, G Pad F 8.0, G Pad 10.1, G Pad x8.3, G4, G5, G6, G7, G7 ThinQ, G8, G8 ThinQ, K10, K20 V, K20 V, K30, K40, K7, Stylo 4, Stylo 5, V10, V20, V30, V40 ThinQ, V50 ThinQ 5G, V60 ThinQ 5G, Velvet 5G, Wing 5G, Edge 2022, moto e play (5<sup>th</sup> Gen), moto e plus (5<sup>th</sup> Gen), Moto g pure, Moto g stylus 5G (2021), Moto g stylus 5G (2022), moto g6, moto g7 power, REVVL 2, REVVL 2 Plus, Avid Plus, Obsidian, 7 Pro, REVVL 5G, V60 ThinQ 5G Dual Screen, 7T Pro 5G McLaren, Aristo 4+, moto e 6th gen, Nord N200 5G, REVVL V+ 5G, razr 5G, 9 5G, Nord N300 5G, 10T 5G, REVVL 6 PRO 5G, Stylus 5G, 10 Pro 5G, Voix, Nord N20 5G, 30 XE 5G, G400 5G, one 5G ace, 8 5G, REVVLRY, Stylo 6, K51, REVVL 4, X100 5G, moto g 5G (2022), REVVL 6 5G, Voix, Nexus 9, Onetouch Pixi 7, Onetouch Pop 7 LTE, 3T 8-inch, G Pad 5 10.1 FHD, Joy Tab 2, Tab 8 LE, Tab 10 5G, 9 Pro 5G, Nord N10 5G, REVVL 4+, Nord N100, 8T+ 5G, Pixel Watch, V30+

The products in the preceding list, including all variations, editions, and applications of the foregoing, and all products and apparatuses of T-Mobile similar to the foregoing that include the claimed elements are the '543 Accused Instrumentalities.

### **U.S. PATENT NO. 9,198,042**

Headwater accuses the following smartphones, basic phones, tablets, laptops, and hotspot devices sold (including those sold in bundles with data plans) or used by T-Mobile for use with T-Mobile's wireless network services of infringing each of the Asserted Claims of the '042 patent:

Servers, hardware, software, and services leased, owned, supported, and/or operated by T-Mobile comprising T-Mobile's wireless network services functionality.

Phones, tablets, wearables, and devices used, sold, offered for sale, or imported within six years of the filing of the date of the lawsuit comprising Apple software (e.g., iOS, WatchOS, etc.) including but not limited to the following: iPad Air, iPad Mini 2, iPhone 5C, iPhone 5S, iPad Air

2, iPad mini 3, iPhone 6, iPhone 6 Plus, iPad mini 4, iPad Pro, 12.9 in., iPhone 6S, iPhone 6S Plus, iPad Pro, 9.7 in, iPhone 7, iPhone 7 Plus, iPhone SE (1st Gen), iPad Pro, 10.5 in., iPad Pro, 12.9 in. (2nd Gen), Watch Series 3, iPhone 8, iPhone 8 Plus, iPhone X, iPad (6th Gen), Watch Series 4, iPad Pro, 11 in. (1st Gen), iPad Pro, 12.9 in. (3rd Gen), iPhone XR, iPhone XS, iPhone XS Max, iPad (7th Gen), iPad Air (3rd Gen), iPad Mini (5th Gen), iPhone 11, iPhone 11 Pro, iPhone 11 Pro Max, Watch Series 5, iPad (8th Gen), iPad Air (4th Gen), iPad Pro, 11 in. (2nd Gen), Watch Series 6, Watch SE, iPad Pro, 12.9 in. (4th Gen), iPhone 12, iPhone 12 Mini, iPhone 12 Pro, iPhone 12 Pro Max, iPhone SE (2nd Gen), iPad (9th Gen), iPad Mini (6th Gen), iPad Pro, 11 in. (3rd Gen), iPad Pro, 12.9 in. (5th Gen), iPhone 13, iPhone 13 Mini, iPhone 13 Pro, iPhone 13 Pro Max, Watch Series 7, iPad (10th Gen), iPad Air (5th Gen), Watch Series 8, Watch SE (2nd Gen), Watch Series 9, iPad Pro (6th Gen), iPhone 14, iPhone 14 Plus, Watch Ultra, Watch Ultra 2, iPhone 14 Pro, iPhone 14 Pro Max, iPhone SE (3rd Gen), iPhone 15, iPhone 15 Pro, iPhone 15 Plus, and iPhone 15 Pro Max.

Phones, tablets, wearables, and devices used, sold, offered for sale, or imported within six years of the filing of the date of the lawsuit comprising Android software (e.g., Android Operating System Platform) including but not limited to the following: Galaxy A03s, Galaxy A10e, Galaxy A13, Galaxy A13 5G, Galaxy A14 5G, Galaxy A20, Galaxy Core Prime, Galaxy J3 Eclipse, Galaxy Note 10+, Galaxy Note 10+ 5G, Galaxy Note 20 5G, Galaxy Note 5, Galaxy Note 6, Galaxy Note 7, Galaxy Note 8, Galaxy Note 9, Galaxy S10, Galaxy S10 5G, Galaxy S10+, Galaxy S10e, Galaxy S20 FE 5G, Galaxy S20 Ultra 5G, Galaxy S20+ 5G, Galaxy S21 5G, Galaxy S21 FE 5G, Galaxy S21 Ultra 5G, Galaxy S21+ 5G, Galaxy S22, Galaxy S22 Ultra, Galaxy S22+, Galaxy S22+, Galaxy S23, Galaxy S23 Ultra, Galaxy S23+, Galaxy S23 FE, Galaxy S5, Galaxy S6, Galaxy S6, Galaxy S6 edge, Galaxy S6 edge +, Galaxy S7, Galaxy S8, Galaxy S8+, Galaxy S9, Galaxy S9+, Galaxy Z Flip 3 5G, Galaxy Z Fold 3 5G, Galaxy Z Fold 4, Galaxy Z Fold 5, Galaxy Z Flip 4, Galaxy Z Flip 5, Note 10+ 5G, Galaxy Tab 4 (8.0, Galaxy Tab E, Galaxy Tab S, Galaxy Tab S2, Galaxy Tab S6, Galaxy Tab S7+ 5G, Galaxy Tab A, Galaxy Tab A 8.0, Galaxy Tab A 8.4, Galaxy Note 20 Ultra 5G, Galaxy A02s, Galaxy A12, Galaxy A01, Galaxy A21, Galaxy A51, Galaxy S7 edge, Galaxy Note 10, Galaxy S20 5G, Gear S2, On5, Galaxy J7 Star, Galaxy J3 Star, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, pixel 4, Pixel 4 XL, Pixel 5, Pixel 6, Pixel 6 Pro, Pixel 6a, Pixel 7 Pro, Pixel 7, Pixel XL, OnePlus 6T, HTC 10, One M9, Aristo 2 Plus, G Pad F 8.0, G Pad 10.1, G Pad x8.3, G4, G5, G6, G7, G7 ThinQ, G8, G8 ThinQ, K10, K20 V, K20 V, K30, K40, K7, Stylo 4, Stylo 5, V10, V20, V30, V40 ThinQ, V50 ThinQ 5G, V60 ThinQ 5G, Velvet 5G, Wing 5G, Edge 2022, moto e play (5<sup>th</sup> Gen), moto e plus (5<sup>th</sup> Gen), Moto g pure, Moto g stylus 5G (2021), Moto g stylus 5G (2022), moto g6, moto g7 power, REVVL 2, REVVL 2 Plus, Avid Plus, Obsidian, 7 Pro, REVVL 5G, V60 ThinQ 5G Dual Screen, 7T Pro 5G McLaren, Aristo 4+, moto e 6th gen, Nord N200 5G, REVVL V+ 5G, razr 5G, 9 5G, Nord N300 5G, 10T 5G, REVVL 6 PRO 5G, Stylus 5G, 10 Pro 5G, Voix, Nord N20 5G, 30 XE 5G, G400 5G, one 5G ace, 8 5G, REVVLRY, Stylo 6, K51, REVVL 4, X100 5G, moto g 5G (2022), REVVL 6 5G, Voix, Nexus 9, Onetouch Pixi 7, Onetouch Pop 7 LTE, 3T 8-inch, G Pad 5 10.1 FHD, Joy Tab 2, Tab 8 LE, Tab 10 5G, 9 Pro 5G, Nord N10 5G, REVVL 4+, Nord N100, 8T+ 5G, Pixel Watch, V30+.



The products in the preceding list, including all variations, editions, and applications of the foregoing, and all products and apparatuses of T-Mobile similar to the foregoing that include the claimed elements are the '042 Accused Instrumentalities.

**U.S. PATENT NO. 9,215,613**

Headwater accuses the following smartphones, basic phones, tablets, laptops, and hotspot devices sold (including those sold in bundles with data plans) or used by T-Mobile for use with T-Mobile's wireless network services of infringing each of the Asserted Claims of the '613 patent:

Servers, hardware, software, and services leased, owned, supported, and/or operated by T-Mobile comprising T-Mobile's wireless network services functionality.

Phones, tablets, wearables, and devices used, sold, offered for sale, or imported within six years of the filing of the date of the lawsuit comprising Apple software (e.g., iOS, WatchOS, etc.) including but not limited to the following: iPad Air, iPad Mini 2, iPhone 5C, iPhone 5S, iPad Air 2, iPad mini 3, iPhone 6, iPhone 6 Plus, iPad mini 4, iPad Pro, 12.9 in., iPhone 6S, iPhone 6S Plus, iPad Pro, 9.7 in, iPhone 7, iPhone 7 Plus, iPhone SE (1st Gen), iPad Pro, 10.5 in., iPad Pro, 12.9 in. (2nd Gen), Watch Series 3, iPhone 8, iPhone 8 Plus, iPhone X, iPad (6th Gen), Watch Series 4, iPad Pro, 11 in. (1st Gen), iPad Pro, 12.9 in. (3rd Gen), iPhone XR, iPhone XS, iPhone XS Max, iPad (7th Gen), iPad Air (3rd Gen), iPad Mini (5th Gen), iPhone 11, iPhone 11 Pro, iPhone 11 Pro Max, Watch Series 5, iPad (8th Gen), iPad Air (4th Gen), iPad Pro, 11 in. (2nd Gen), Watch Series 6, Watch SE, iPad Pro, 12.9 in. (4th Gen), iPhone 12, iPhone 12 Mini, iPhone 12 Pro, iPhone 12 Pro Max, iPhone SE (2nd Gen), iPad (9th Gen), iPad Mini (6th Gen), iPad Pro, 11 in. (3rd Gen), iPad Pro, 12.9 in. (5th Gen), iPhone 13, iPhone 13 Mini, iPhone 13 Pro, iPhone 13 Pro Max, Watch Series 7, iPad (10th Gen), iPad Air (5th Gen), Watch Series 8, Watch SE (2nd Gen), Watch Series 9, iPad Pro (6th Gen), iPhone 14, iPhone 14 Plus, Watch Ultra, Watch Ultra 2, iPhone 14 Pro, iPhone 14 Pro Max, iPhone SE (3rd Gen), iPhone 15, iPhone 15 Pro, iPhone 15 Plus, and iPhone 15 Pro Max.

Phones, tablets, wearables, and devices used, sold, offered for sale, or imported within six years of the filing of the date of the lawsuit comprising Android software (e.g., Android Operating System Platform) including but not limited to the following: Galaxy A03s, Galaxy A10e, Galaxy A13, Galaxy A13 5G, Galaxy A14 5G, Galaxy A20, Galaxy Core Prime, Galaxy J3 Eclipse, Galaxy Note 10+, Galaxy Note 10+ 5G, Galaxy Note 20 5G, Galaxy Note 5, Galaxy Note 6, Galaxy Note 7, Galaxy Note 8, Galaxy Note 9, Galaxy S10, Galaxy S10 5G, Galaxy S10+, Galaxy S10e, Galaxy S20 FE 5G, Galaxy S20 Ultra 5G, Galaxy S20+ 5G, Galaxy S21 5G, Galaxy S21 FE 5G, Galaxy S21 Ultra 5G, Galaxy S21+ 5G, Galaxy S22, Galaxy S22 Ultra, Galaxy S22+, Galaxy S22+, Galaxy S23, Galaxy S23 Ultra, Galaxy S23+, Galaxy S23 FE, Galaxy S5, Galaxy S6, Galaxy S6, Galaxy S6 edge, Galaxy S6 edge +, Galaxy S7, Galaxy S8, Galaxy S8+, Galaxy S9, Galaxy S9+, Galaxy Z Flip 3 5G, Galaxy Z Fold 3 5G, Galaxy Z Fold 4, Galaxy Z Fold 5, Galaxy Z Flip 4, Galaxy Z Flip 5, Note 10+ 5G, Galaxy Tab 4 (8.0), Galaxy Tab E, Galaxy Tab S,



Galaxy Tab S2, Galaxy Tab S6, Galaxy Tab S7+ 5G, Galaxy Tab A, Galaxy Tab A 8.0, Galaxy Tab A 8.4, Galaxy Note 20 Ultra 5G, Galaxy A02s, Galaxy A12, Galaxy A01, Galaxy A21, Galaxy A51, Galaxy S7 edge, Galaxy Note 10, Galaxy S20 5G, Gear S2, On5, Galaxy J7 Star, Galaxy J3 Star, Pixel 3, Pixel 3 XL, Pixel 3a, Pixel 3a XL, pixel 4, Pixel 4 XL, Pixel 5, Pixel 6, Pixel 6 Pro, Pixel 6a, Pixel 7 Pro, Pixel 7, Pixel XL, OnePlus 6T, HTC 10, One M9, Aristo 2 Plus, G Pad F 8.0, G Pad 10.1, G Pad x8.3, G4, G5, G6, G7, G7 ThinQ, G8, G8 ThinQ, K10, K20 V, K20 V, K30, K40, K7, Stylo 4, Stylo 5, V10, V20, V30, V40 ThinQ, V50 ThinQ 5G, V60 ThinQ 5G, Velvet 5G, Wing 5G, Edge 2022, moto e play (5<sup>th</sup> Gen), moto e plus (5<sup>th</sup> Gen), Moto g pure, Moto g stylus 5G (2021), Moto g stylus 5G (2022), moto g6, moto g7 power, REVVL 2, REVVL 2 Plus, Avid Plus, Obsidian, 7 Pro, REVVL 5G, V60 ThinQ 5G Dual Screen, 7T Pro 5G McLaren, Aristo 4+, moto e 6th gen, Nord N200 5G, REVVL V+ 5G, razr 5G, 9 5G, Nord N300 5G, 10T 5G, REVVL 6 PRO 5G, Stylus 5G, 10 Pro 5G, Voix, Nord N20 5G, 30 XE 5G, G400 5G, one 5G ace, 8 5G, REVVLRY, Stylo 6, K51, REVVL 4, X100 5G, moto g 5G (2022), REVVL 6 5G, Voix, Nexus 9, Onetouch Pixi 7, Onetouch Pop 7 LTE, 3T 8-inch, G Pad 5 10.1 FHD, Joy Tab 2, Tab 8 LE, Tab 10 5G, 9 Pro 5G, Nord N10 5G, REVVL 4+, Nord N100, 8T+ 5G, Pixel Watch, V30+.

The products in the preceding list, including all variations, editions, and applications of the foregoing, and all products and apparatuses of T-Mobile similar to the foregoing that include the claimed elements are the '613 Accused Instrumentalities.

### **P.R. 3-1(C): CLAIM CHARTS**

Headwater's analysis of T-Mobile's products and apparatuses is based upon information that is publicly available and based on Headwater's own investigation prior to any discovery in this action.

While the publicly available information constitutes evidence of the methods and apparatuses used by Headwater in the Accused Instrumentalities, direct evidence of the actual apparatuses and methods are at times not publicly available. Accordingly, these infringement contentions are based on the available public information, analysis, and reasonable inferences drawn from that information.

Headwater reserves the right to amend or supplement these disclosures for any of the following reasons (along with any other reason that may be permitted under the court's rules and orders):

- (1) T-Mobile provides evidence of the apparatuses and methods used in the Accused Instrumentalities;
- (2) The Asserted Claims may include elements that involve features that are implemented by hardware structures and logic and Headwater's current positions on infringement are set forth without the benefit of access to T-Mobile's source code, schematics, drawings, or other proprietary specifications or information, which cannot be obtained through publicly available information, for the Accused Instrumentalities. Therefore, it may be necessary for Headwater to supplement its positions on infringement after a complete production of such proprietary specifications or information by T-Mobile;
- (3) Headwater's position on infringement of specific claims will depend on the claim constructions adopted by the Court. Because said constructions have not yet occurred, Headwater cannot take a final position on the bases for infringement of the Asserted Claims; and
- (4) Headwater's investigation and analysis of T-Mobile's Accused Instrumentalities are based upon information made publicly available by T-Mobile and by Headwater's own investigations. Headwater reserves the right to amend these contentions based upon discovery of non-public information that Headwater anticipates receiving from T-Mobile during discovery.

Attached as Exhibits A through D, and incorporated herein in their entirety, are charts identifying where each element of the Asserted Claims of the '541, '543, '042, and '613 patents are found in the Accused Instrumentalities.

Unless otherwise indicated, the information provided that corresponds to each claim element is considered to indicate that each claim element is found within each of the different variations, versions, editions, and applications of each respective Accused Instrumentalities.

**P.R. 3-1(D): LITERAL INFRINGEMENT AND DOCTRINE OF EQUIVALENTS**

With respect to the patents at issue, Headwater contends that each element of each Asserted Claim is literally present. To the extent that T-Mobile identifies elements of the Asserted Claims that it contends are not literally present in the Accused Instrumentalities, Headwater contends that such elements are present under the doctrine of equivalents.

**P.R. 3-1(E): PRIORITY DATES**

<i>U.S. Patent No.</i>	<i>Priority Date</i>
8,589,541	January 28, 2009
8,924,543	January 28, 2009
9,198,042	January 28, 2009
9,215,613	January 28, 2009

**P.R. 3-1(F): IDENTIFICATION OF INSTRUMENTALITIES PRACTICING THE CLAIMED INVENTION**

The ItsOn software may incorporate or reflect the claims of the Asserted Patents. Headwater reserves the right to supplement this response should further investigation, discovery, or the court's claim construction rulings make such supplementation appropriate.

**P.R. 3-2: DOCUMENT PRODUCTION ACCOMPANYING DISCLOSURE**

**P.R. 3-2(A) DOCUMENTS**

Headwater is presently unaware of any documents that evidence any discussion with, disclosure to, or other manner of providing to a third party, or sale of or offer to sell, any of the inventions claimed in the patents in suit prior to their respective application dates.

A diligent search continues for documents, and Headwater reserves the right to supplement this response.

**P.R. 3-2(B) DOCUMENTS**

Headwater is presently unaware of any documents that evidence the conception, reduction to practice, design, or development of the claimed inventions, which were created on or before the application dates of the patents in suit or priority date identified pursuant to P.R. 3-1(e).

A diligent search continues for documents, and Headwater reserves the right to supplement this response.

**P.R. 3-2(C) DOCUMENTS**

The file histories for the '541, '543, '042, and '613 patents may be found in Headwater's production.

Date: November 20, 2023

/s/ Marc Fenster

Marc Fenster  
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**CERTIFICATE OF SERVICE**

I certify that this document is being served upon counsel of record for Defendants on November 20, 2023 via electronic mail.

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